

IN THE CLAIMS

Please amend the claims as follows:

1. (currently amended) An illumination system for illuminating a display device, comprising: a light-emitting panel and a light source for coupling light into the light-emitting panel , said light source including a low-pressure mercury-vapor discharge lamp having, in normal operation, a fixed electromagnetic spectrum, characterized in that the light source further comprises a plurality of light-emitting diodes, and means for selectively ~~setting~~ controlling, in operation, the color temperature of the light emitted by the light source.

2. (currently amended) An illumination system as claimed in claim 1, characterized in that one or more of the light-emitting diodes produce a light emission wavelength for selectively increasing the color temperature of the light emitted by the light source.

3. (original) An illumination system as claimed in claim 2, characterized in that the color temperature of the light emitted by the light source can be set so as to range from 6,000 K to 11,000 K.

4. (previously amended) An illumination system as claimed in claim 1, characterized in that the light-emitting diodes produce a predominantly blue light emission wavelength.

5. (currently amended) An illumination system as claimed in claim 1, characterized in that each one of the light-emitting diodes and the low-pressure discharge lamp directly transmit their light, without substantial reflection to the light-emitting panel.

6. (currently amended) An illumination system as claimed in claim 1, characterized in that the ~~illumination system~~ controlling means comprises control electronics for changing the luminous flux of only the light-emitting diodes.

7. (previously amended) A display device comprising: a liquid crystal display device optically coupled to an illumination system as claimed in claim 1.

8. (currently amended) An illumination system for illuminating a display device, comprising:

a light-emitting panel, and

a light source arranged to couple light from the light source into the light-emitting panel, wherein the light source comprises;

at least one electric discharge lamp having, in normal operation, a fixed electromagnetic spectrum, and

at least one light emitting diode chosen so as to ~~set~~ adjust the color temperature of the light emitted by the light source such that the color point of an image displayed by the display device is adjusted independently of a the display device illuminated by the light source.

9. (previously amended) An illumination system for illuminating a display device, comprising:

a light-emitting panel, and

a light source arranged to couple light from the light source into the light-emitting panel, wherein the light source comprises;

at least one electric discharge lamp, and

at least one light emitting diode chosen so as to set the color temperature of the light emitted by the light source, wherein said at least one light emitting diode has a light emission wavelength relative to the light emission wavelength of the electric discharge lamp so as to set the color temperature of the light emitted by the light source to a level above that of the discharge lamp alone.

10. (currently amended) The illumination system as claimed in claim 8 wherein the at least one electric discharge lamp includes first and second electric discharge lamps physically separated from one another by the light-emitting panel.

11. (previously presented) The illumination system as claimed in claim 8 wherein the at least one light emitting diode provides light at a predominantly blue light emission wavelength.

12. (currently amended) The illumination system as claimed in claim 8 further comprising control electronics for selectively setting the luminous flux of the at least one light emitting diode dependant ~~upon the color temperature of the ambient light, or under control by~~ of a user of the illumination system.

13. (previously presented) The illumination system as claimed in claim 8 wherein the at least one electric discharge lamp comprises first and second low pressure mercury vapor discharge lamps located at opposite sides of the light emitting panel and the at least one light emitting diode comprises at least first and second light emitting diodes also located at opposite sides of the light emitting panel.

14. (previously amended) The illumination system as claimed in claim 8 further comprising control electronics for selectively adjusting, during normal operation of the illumination system, the luminous flux of the at least one light emitting diode dependent upon the illumination level of an image displayed by the display device.

15. (cancelled)

16. (previously presented) The illumination system as claimed in claim 8 wherein the light emitting panel includes a light-mixing chamber housing the at least one electric discharge lamp and a micro-grooved bar into which light from the at least one light emitting diode is coupled and in turn emitted by the micro-grooved bar into the light emitting panel.

17. (previously presented) The illumination system as claimed in claim 8 wherein the at least one electric discharge lamp includes first and second electric discharge lamps and the at least one light emitting diode comprises at least first and second light emitting diodes, and

the light emitting panel includes first and second light-mixing chambers housing the first and second electric discharge lamps, respectively, and

the first and second light emitting diodes contact the first and second light-mixing chambers, respectively, so as to project their light into the light-emitting panel.

18. (previously presented) The illumination system as claimed in claim 8 wherein the at least one electric discharge lamp includes only one single low pressure mercury vapor discharge lamp.

19. (new) The illumination system as claimed in claim 8 further comprising control electronics for selectively adjusting the luminous flux of the at least one light emitting diode as determined by ambient light.

20. (new) The illumination system as claimed in claim 1 wherein the controlling means controls at least one of the light emitting diodes so as to adjust the color temperature of the light emitted by the light source to a color temperature different from that of the discharge lamp alone.